# RENU DIESEL

# SAFETY DATA SHEET

Revision Date 13-May-2016 Version 1

# 1. IDENTIFICATION

**Product identifier** 

Product Name Renu Diesel Fuel System Cleaner

Other means of identification

Product Code FS 21313
Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use See directions provided with product

Uses advised against All other applications

Details of the supplier of the safety data sheet

Supplier Address <u>Manufacturer Address</u> <u>Distributor</u>

ITW Professional Automotive Products

3606 Craftsman Blvd. Lakeland, FL 33803

Company Phone Number 863-665-3338

24 Hour Emergency Phone Number Chem-Tel: 800-255-3924

International Emergency: 00+1+ 813-248-0585

Contract Number: MIS0003583

E-mail address EHS@itwproap.com

# 2. HAZARDS IDENTIFICATION

# Classification

#### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

# NOTE:

Carcinogenicity	Category 1B
Aspiration toxicity	Category 1
Flammable liquids	Category 4

#### Label elements

# **Emergency Overview**

# Danger

May cause cancer May be fatal if swallowed and enters airways Combustible liquid



Appearance Clear Physical state Liquid Odor Hydrocarbon

# **Precautionary Statements - Prevention**

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

# **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Do NOT induce vomiting

In case of fire: Use CO2, dry chemical, or foam for extinction

#### **Precautionary Statements - Storage**

Store locked up

Store in a well-ventilated place. Keep cool

# **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

# Hazards not otherwise classified (HNOC)

Not applicable

#### Other Information

- Causes mild skin irritation

- Harmful to aquatic life with long lasting effects

Unknown acute toxicity

1.64345001 % of the mixture consists of ingredient(s) of unknown toxicity

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### substance(s)

Chemical Name	CAS No	Weight-%	Trade Secret
Fuels, diesel, no. 2	68476-34-6	40 - 70	*
2-Ethylhexyl nitrate	27247-96-7	10 - 30	*
Solvent naphtha (petroleum), light aromatic	64742-95-6	1 - 5	*
1,2,4-Trimethylbenzene	95-63-6	1 - 5	*
Heavy aromatic solvent naphtha	64742-94-5	1 - 5	*
Naphthalene	91-20-3	0.1 - 1	*

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

# 4. FIRST AID MEASURES

# **Description of first aid measures**

**General advice** If symptoms persist, call a physician.

Eye contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms

persist, call a physician.

Skin contact Immediate medical attention is not required. Wash off immediately with soap and plenty of

water while removing all contaminated clothes and shoes. If skin irritation persists, call a

physician.

**Inhalation** Immediate medical attention is not required. If symptoms persist, call a physician. Move to

fresh air in case of accidental inhalation of vapors or decomposition products.

Ingestion Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth

to an unconscious person. Call a physician. Do NOT induce vomiting.

Use personal protective equipment as required. Self-protection of the first aider

Most important symptoms and effects, both acute and delayed

See section 2 for more information. **Symptoms** 

Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Note to physicians

# 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use, Dry chemical, Carbon dioxide (CO2), Water spray (fog), Alcohol resistant foam

Unsuitable extinguishing media

Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical

Keep product and empty container away from heat and sources of ignition. Risk of ignition.

**Explosion data** 

**Sensitivity to Mechanical Impact** None. Sensitivity to Static Discharge None.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

# 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Use personal protective equipment as required. Remove all sources of ignition. Evacuate

personnel to safe areas. Keep people away from and upwind of spill/leak. Pay attention to

flashback. Take precautionary measures against static discharges.

**Environmental precautions** 

See Section 12 for additional ecological information. Do not flush into surface water or **Environmental precautions** 

sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product

from entering drains.

Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

Soak up with inert absorbent material. Dam up. Pick up and transfer to properly labeled Methods for cleaning up

containers. Take precautionary measures against static discharges.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

# 7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Use with local exhaust ventilation. All equipment used when handling the product must be

grounded. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use

personal protective equipment as required. Do not breathe

dust/fume/gas/mist/vapors/spray. Take necessary action to avoid static electricity discharge

(which might cause ignition of organic vapors).

# Conditions for safe storage, including any incompatibilities

Storage Conditions Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric

motors and static electricity). Keep containers tightly closed in a cool, well-ventilated place.

Keep away from heat. Keep in properly labeled containers.

Incompatible materials Strong oxidizing agents

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

**Exposure Guidelines** 

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Fuels, diesel, no. 2 68476-34-6	TWA: 100 mg/m³ total hydrocarbons inhalable fraction and vapor S*	-	-
1,2,4-Trimethylbenzene 95-63-6	-	-	TWA: 25 ppm TWA: 125 mg/m <sup>3</sup>
Naphthalene 91-20-3	TWA: 10 ppm S*	TWA: 10 ppm TWA: 50 mg/m³ (vacated) TWA: 10 ppm (vacated) TWA: 50 mg/m³ (vacated) STEL: 15 ppm (vacated) STEL: 75 mg/m³	IDLH: 250 ppm TWA: 10 ppm TWA: 50 mg/m³ STEL: 15 ppm STEL: 75 mg/m³

NIOSH IDLH Immediately Dangerous to Life or Health

Other Information Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962

(11th Cir., 1992).

Appropriate engineering controls

Engineering Controls Showers

Eyewash stations Ventilation systems

# Individual protection measures, such as personal protective equipment

**Eye/face protection** Tight sealing safety goggles.

Skin and body protection Wear protective natural rubber, nitrile rubber, Neoprene™ or PVC gloves.

appropriate.

General Hygiene Considerations When using do not eat, drink or smoke. Regular cleaning of equipment, work area and

clothing is recommended.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

# Information on basic physical and chemical properties

Physical stateLiquidAppearanceClearOdorHydrocarbonColoramber

Odor threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

PH No information available

Melting point / freezing point

Boiling point / boiling range
Flash point
Evaporation rate

No information available

> 35 °C / 95 °F

62 °C / 144 °F

No information available

Evaporation rate

Flammability (solid, gas)

Flammability Limit in Air

No information available
No information available

Upper flammability limit:
Lower flammability limit:
Vapor pressure
Vapor density

No information available
No information available
No information available

Relative density 0.87
Water solubility Insoluble in water

Solubility in other solvents
Partition coefficient
Autoignition temperature
Decomposition temperature
No information available
No information available
No information available

Kinematic viscosity 2 mm2/s

Dynamic viscosityNo information availableExplosive propertiesNo information availableOxidizing propertiesNo information available

**Other Information** 

**Softening point**Molecular weight
No information available
No information available

VOC Content (%) 5.69355

DensityNo information availableBulk densityNo information available

# 10. STABILITY AND REACTIVITY

#### Reactivity

No data available

# Chemical stability

Stable under recommended storage conditions

# Possibility of Hazardous Reactions

None under normal processing.

# Conditions to avoid

Heat, flames and sparks.

# Incompatible materials

Strong oxidizing agents

# **Hazardous Decomposition Products**

Carbon oxides

# 11. TOXICOLOGICAL INFORMATION

# Information on likely routes of exposure

**Inhalation** May cause irritation of respiratory tract.

Eye contact Contact with eyes may cause irritation. May cause redness and tearing of the eyes.

**Skin contact** May cause skin irritation and/or dermatitis.

**Ingestion** Ingestion may cause irritation to mucous membranes.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
2-Ethylhexyl nitrate	> 2000 mg/kg (Rat)	> 4820 mg/kg ( Rabbit )	> 14 mg/L (Rat) 4 h
27247-96-7			
Solvent naphtha (petroleum), light	= 8400 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 3400 ppm (Rat) 4 h
aromatic			
64742-95-6			
1,2,4-Trimethylbenzene	= 3280 mg/kg (Rat)	> 3160 mg/kg (Rabbit)	= 18 g/m³(Rat)4 h
95-63-6			
Heavy aromatic solvent naphtha	> 5000 mg/kg (Rat)	> 2 mL/kg (Rabbit)	> 590 mg/m³ (Rat) 4 h
64742-94-5			
Naphthalene	= 1110 mg/kg (Rat) = 490 mg/kg (	= 1120 mg/kg (Rabbit) > 20 g/kg (	> 340 mg/m³ (Rat) 1 h
91-20-3	Rat )	Rabbit )	

# Information on toxicological effects

**Symptoms** No information available.

# Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Sensitization Germ cell mutagenicity**No information available.
No information available.

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Fuels, diesel, no. 2 68476-34-6	A3	Group 3	-	-
2-Ethylhexyl nitrate 27247-96-7	-	Group 2A	-	Х
Naphthalene 91-20-3	А3	Group 2A	Reasonably Anticipated	Х

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 2A - Probably Carcinogenic to Humans Group 2B - Possibly Carcinogenic to Humans Not classifiable as a human carcinogen

NTP (National Toxicology Program)

Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

**Chronic toxicity** May cause adverse effects on the bone marrow and blood-forming system.

Target Organ Effects Blood, Central nervous system, Eyes, Respiratory system, Skin.

# The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 8061 mg/kg
ATEmix (dermal) 12929 mg/kg
ATEmix (inhalation-dust/mist) 73.4 mg/l

# 12. ECOLOGICAL INFORMATION

# **Ecotoxicity**

23.24845 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Fuels, diesel, no. 2	-	35: 96 h Pimephales promelas mg/L	-
68476-34-6		LC50 flow-through	
2-Ethylhexyl nitrate	-	116: 48 h Salmo gairdneri mg/L	-
27247-96-7		LC50 static	
Solvent naphtha (petroleum), light	-	9.22: 96 h Oncorhynchus mykiss	6.14: 48 h Daphnia magna mg/L
aromatic		mg/L LC50	EC50
64742-95-6			
1,2,4-Trimethylbenzene	-	7.19 - 8.28: 96 h Pimephales	6.14: 48 h Daphnia magna mg/L
95-63-6		promelas mg/L LC50 flow-through	EC50
Heavy aromatic solvent naphtha	2.5: 72 h Skeletonema costatum	19: 96 h Pimephales promelas mg/L	0.95: 48 h Daphnia magna mg/L
64742-94-5	mg/L EC50	LC50 static 2.34: 96 h	EC50
		Oncorhynchus mykiss mg/L LC50	

1740: 96 h Lepomis macrochirus mg/L LC50 static 45: 96 h Pimephales promelas mg/L LC50 flow-through 41: 96 h Pimephales promelas mg/L LC50 5.74 - 6.44: 96 h Pimephales 0.4: 72 h Skeletonema costatum 2.16: 48 h Daphnia magna mg/L Naphthalene promelas mg/L LC50 flow-through 91-20-3 mg/L EC50 LC50 1.96: 48 h Daphnia magna 1.6: 96 h Oncorhynchus mykiss mg/L EC50 Flow through 1.09 - 3.4: mg/L LC50 flow-through 0.91 - 2.82: 48 h Daphnia magna mg/L EC50 96 h Oncorhynchus mykiss mg/L Static LC50 static 1.99: 96 h Pimephales promelas mg/L LC50 static 31.0265 96 h Lepomis macrochirus mg/L LC50 static

# Persistence and degradability

No information available.

# **Bioaccumulation**

No information available.

# **Mobility**

No information available.

Chemical Name	Partition coefficient
2-Ethylhexyl nitrate	4.14
27247-96-7	
1,2,4-Trimethylbenzene	3.63
95-63-6	
Heavy aromatic solvent naphtha	2.9 - 6.1
64742-94-5	
Naphthalene	3.3
91-20-3	

# Other adverse effects

No information available

# 13. DISPOSAL CONSIDERATIONS

# Waste treatment methods

Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and

regulations.

**Contaminated packaging** Do not reuse container.

US EPA Waste Number U055 U165 U239

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Naphthalene	U165	Included in waste streams:	-	U165
91-20-3		F024, F025, F034, F039,		
		K001, K035, K060, K087,		
		K145		

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Naphthalene 91-20-3	-	-	Toxic waste waste number F025 Waste description: Condensed light ends, spent filters and filter aids, and spent desiccant wastes from the production of certain chlorinated aliphatic hydrocarbons, by free radical catalyzed processes.	•

These chlorinated aliphatic
hydrocarbons are those
having carbon chain lengths
ranging from one to and
including five, with varying
amounts and positions of
chlorine substitution.

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status
Naphthalene	Toxic
91-20-3	

# 14. TRANSPORT INFORMATION

NOTE:

DOT

Proper shipping name: Not regulated

<u>IATA</u>

Proper shipping name: Not regulated

**IMDG** 

Proper shipping name: Not regulated

# 15. REGULATORY INFORMATION

International Inventories	
TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

#### Leaend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

# **US Federal Regulations**

# **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values %	
1,2,4-Trimethylbenzene - 95-63-6	1.0	
Naphthalene - 91-20-3	0.1	
Ethylbenzene - 100-41-4	0.1	

SARA 311/312 Hazard Categories

Acute health hazard Yes
Chronic Health Hazard No
Fire hazard Yes

Sudden release of pressure hazard No **Reactive Hazard** No

# **CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Naphthalene 91-20-3	100 lb	X	X	Х

# **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Naphthalene	1 lb	=	RQ 1 lb final RQ
91-20-3			RQ 0.454 kg final RQ

# **US State Regulations**

# **California Proposition 65**

This product contains the following Proposition 65 chemicals

Chemical Name	California Proposition 65
Naphthalene - 91-20-3	Carcinogen
Cumene - 98-82-8	Carcinogen
Ethylbenzene - 100-41-4	Carcinogen

# U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Fuels, diesel, no. 2	X	-	-
68476-34-6			
2-Ethylhexyl nitrate	X	-	-
27247-96-7			
1,2,4-Trimethylbenzene	X	X	X
95-63-6			
Xylene	X	X	X
1330-20-7			
Naphthalene	X	X	Χ
91-20-3			
Cumene	X	X	Χ
98-82-8			
Ethylbenzene	X	X	Χ
100-41-4			

# **U.S. EPA Label Information**

**EPA Pesticide Registration Number** Not applicable

#### **WHMIS Hazard Class**

B3 - Combustible liquid, D2A - Very toxic materials, D2B - Toxic materials

# 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA **Health hazards** 2 Flammability 2 Instability 0

HMIS Health hazards 2 Flammability 2 Physical hazards 0 Personal protection B

NFPA (National Fire Protection Association) HMIS (Hazardous Material Information System)

**Revision Date** 13-May-2016

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage,

transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**